

Nuclear Division News



A Newspaper for Employees of the Nuclear Division, Union Carbide Corporation

Vol. 8/No. 23 November 24, 1977

question box

If you have questions on company policy, write the Editor, **Nuclear Division News** (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

Secretarial positions

QUESTION: Is it the policy of Union Carbide to rate the secretary according to the position of her boss? For instance, a secretary that has been an employee several years and has always been given excellent appraisals cannot be a level 5 (senior secretary) unless her boss is a division director. It doesn't seem fair to hold her back simply because she does not work for a division director. There just aren't enough to employ the secretaries that are capable of being on level 5.

ANSWER: All nonexempt positions, including secretaries, are formally evaluated by use of the Hay Plan based on know-how, problem solving, and accountability. Secretarial positions higher in the organization structure generally have correspondingly higher responsibilities related to the position of the supervisor.

It is common in any large organization to have employees qualified to move up to higher level jobs. This applies to professionals or managers who are ready for a division manager's/director's job as well as to secretaries who are ready for a division manager's/director's secretary's job. However, until openings occur, these employees may not attain the higher positions.

Our salary program does provide for employees receiving superior or outstanding appraisals to be paid high in the rate range of their positions, even if higher level jobs are not available to them.

Working hours

QUESTION: I work in Building 6010, where we have two or three secretaries who come in at 9 or 9:30 every morning. Are their hours regulated by their individual supervisors or is there some Laboratory policy that lets them set their hours this way?

ANSWER: We have no way of knowing the identities of the secretaries to whom you refer. Two secretaries in Building 6010 are part-time and have varying schedules. For medical reasons, one full-time secretary has been permitted to work a reduced work schedule and therefore reports to work later than

the normal starting time. Under normal circumstances, all employees are expected to be at work at the usual starting times at the Laboratory.

Parking lot responsibility

QUESTION: I work at K-25 and have for over 10 years. During this period, I have been continually informed that our plant guard department has no responsibility in the parking lots. If you have an accident or other problems, the employee is required to call the Oak Ridge City Police. This level of responsibility is quite evident lately due to the number of thefts that occur each day in the parking lots.

Since our guard department is not responsible or is not able to handle accidents or blatant theft in the parking area, how do you explain their time and authority to harass employees with nit-picking parking tickets.

ANSWER: There are different types of jurisdiction and responsibilities. The Company does not have responsibility for vehicular accidents or for personal property stolen from private vehicles in the parking lots. In Oak Ridge, this jurisdiction rests with the Oak Ridge City police; in Paducah with the State police and County Sheriff's Department.

The control of access to, parking, and exiting from parking lots is a different matter. In order to better insure an orderly, safe arrival and departure for Company employees, visitors, fire, police and other security type vehicles, the Company has designated parking areas and traffic flows.

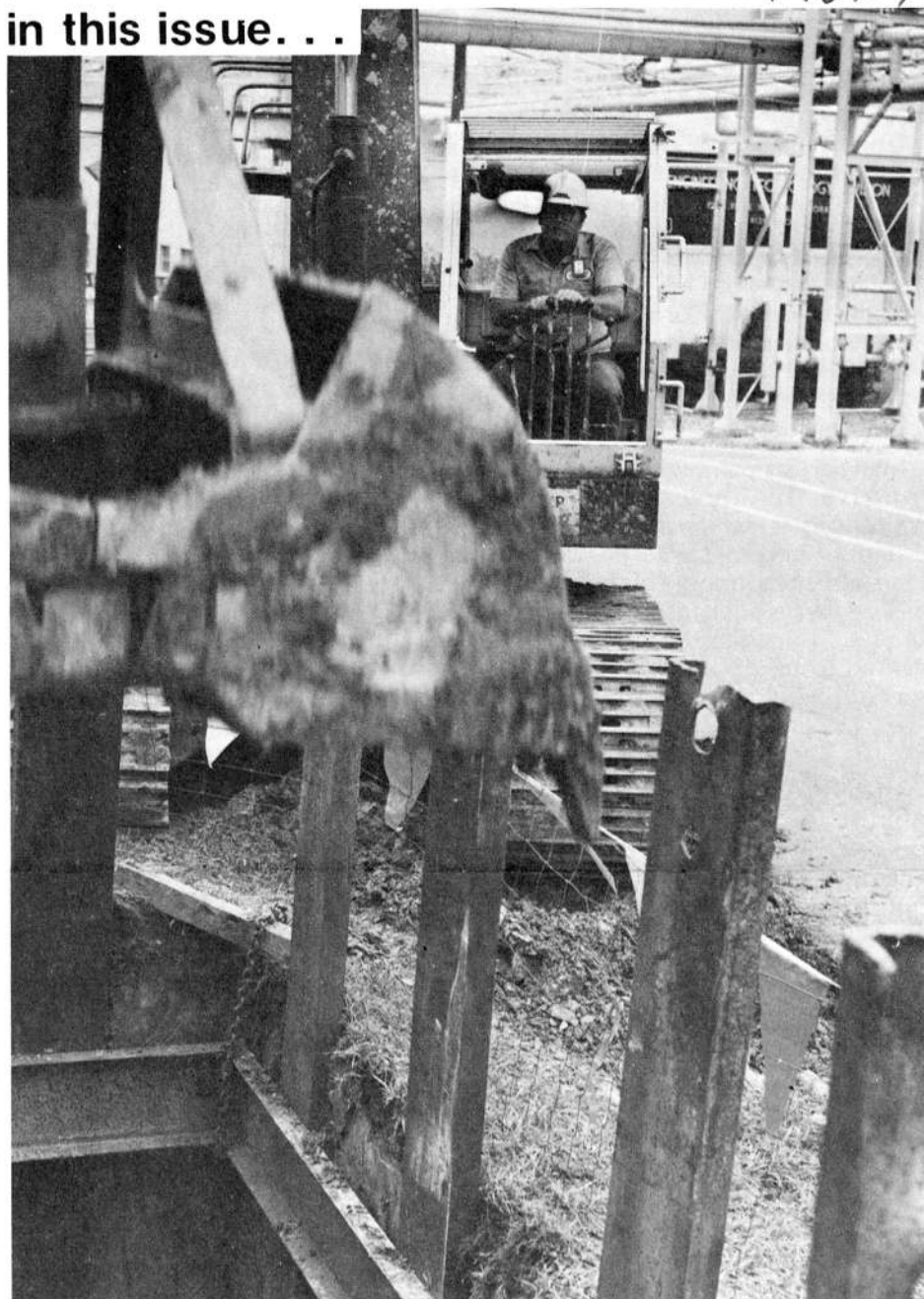
The Company does not initially discipline those individuals parking incorrectly. It does alert the individual that he/she is parking improperly. If an employee insists on ignoring the rules after repeated warnings, some further action is necessary. Fortunately, it is seldom necessary to go beyond the warning stage.

Damage responsibilities

QUESTION: Is the contractor that is doing the repair work at the K-25 building responsible for replacing the transit walls they knocked down by backing their trucks into them?

ANSWER: Yes.

in this issue. . .



A SPADEFUL OF EARTH is a familiar sight around the Y-12 Plant these days, as construction has begun on revamping the telephone systems for the three Oak Ridge Nuclear Division plants. The work is expected to be finished by 1979. Other photos are on page 4.

Firewood cuttings December 2, 3

The next public firewood cuttings will be held on the ORNL reservation December 2 and 3. Those interested in participating should meet in the parking lot on Bethel Valley Road, east of the main entrance to ORNL (across the street from the new Holifield Heavy Ion tower).

Participants must bring their own cutting equipment. Children under 14 years of age will not be allowed in the cutting area due to safety precautions. Cutting will be in designated areas, only.

A permit fee of \$5 per individual or family will be charged to incur costs of personnel needed to monitor the activity. For more information call Dennis Bradburn at 3-1266, or the Public Relations Department, 3-6421.

Other features in this issue:

- Paducah engineer 'paints music' page 2
- About people page 3
- Dr. Lincoln on nicotine page 5
- Children's party time again page 7

A \$10 MILLION AIR SEPARATION plant has been announced by Union Carbide Corporation to be constructed in Anne Arundel County, Md. The 300-tons-per-day facility, to be operated by the Linde Division, will produce high-purity liquid oxygen, nitrogen and argon, as well as gaseous oxygen and nitrogen for pipeline accounts in the area.

Union Carbide is the country's leading producer of atmospheric gases, with facilities to supply all major industrial areas in the United States.

Paducah engineer draws 'music' into art themes

Ernest B. Whitehead, a consultant at the Paducah Plant, attended Washington University. He joined Union Carbide in 1969, after working for Chrysler Corporation's Space Division, AVCO Aero Space, Goodyear and McDonald Aircraft and S. H. McGraw, Paducah.

Interested in music, his artwork centers around themes from the classics. His "different drummer" story, below, is evidence of his many-faceted interests.

By Darlene McPherson

Ernie Whitehead, a consultant in the Mechanical Engineering Department at the Paducah Plant is a "composer" in the tradition of great masters such as Debussy, Wagner and Tchaikovsky. But his tools don't include a keyboard or shaped notes. His melodies find expression in pen and ink—or any number of other graphic methods. Whitehead is a painter of music.

Many artists paint what they see or contrive in their minds, but Whitehead is set apart because he also puts into visual form what he hears and feels in some of the classics.

"I've always been interested in art," he says. "I once told my father that I wanted to be a painter when I grew up—so I wouldn't have to work!"

Yet work has been a vital force in Whitehead's life—often glamorous, sometimes dangerous, but immutably interesting. He has surveyed the Atchafalaya River in Louisiana. He has worked as an engineer with several aircraft fabrication companies, on projects such as the Marauder B-26, the Black Widow fighter plane, the B-29 and the Saturn S1B space missile. He also has been associated with businesses dealing in telephones, guns, hardware, banks and insurance, to name a few.

Whitehead first gained recognition in the art world while affiliated with McConn and Burr of St. Louis, one of the oldest art institutes in that city. As his work became more widely known, he took an interest in the works of others. He once purchased a

Beuringhaus print of an Indian done on redwood for \$25. He later sold the piece for \$75 and still later discovered that the work found its way to a collection in Taso, N.M.

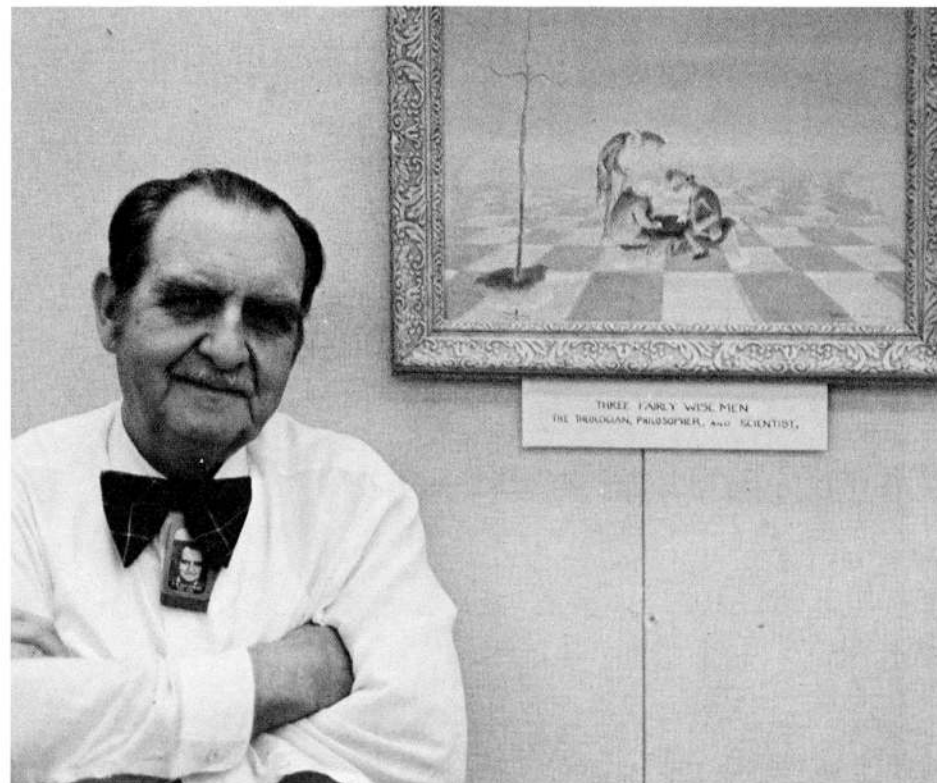
On another occasion, he acquired several pieces by the printmaker Gaucicus dating back to about 1650. He purchased approximately five prints for \$1 each from a dealer and then sold them for \$150. Some years later a New Orleans print dealer told him the pieces were valued at \$225 each.

Whitehead not only seems capable of predicting the profitable painting, but also senses changes that others often do not comprehend. In the late 1950's he portrayed in oils a young man alone in the desert with an outstretched hand and a bewildered expression. He felt that after the war years, many persons didn't respond to the needs and questions of the country's young people, and he anticipated a rebellion to bring attention to this fact. His art work expressed this feeling.

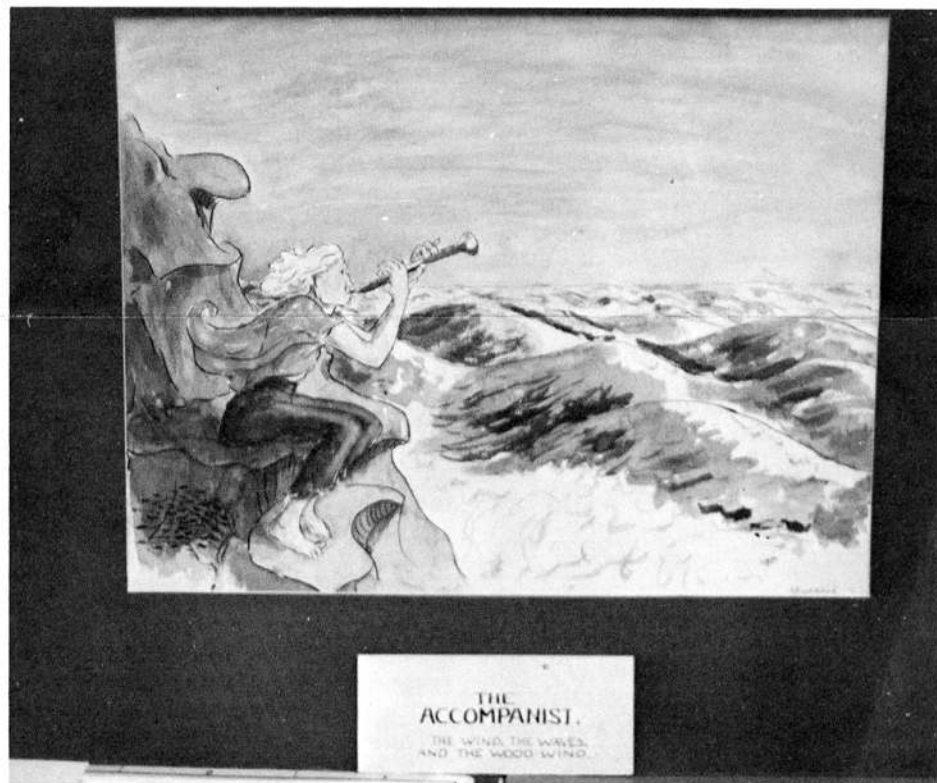
A pen and ink creation entitled "Exodus" symbolizes yet another societal vision of the engineer/artist. This particular piece deals with the idea of a continual decline in American cities and the ultimate possibility of mass immigration from them. This same ideal encompasses what he calls "the essence of our whole existence" which he feels is found in close communion with nature and the natural environment.

Many of these artistic reflections find their existence in copper engravings or silk screen prints, as well as on canvas. Whitehead's art forms are as varied as his philosophical perspicacity, but not quite as unique.

Whitehead and his wife, Corrine, live on Route 9, Benton, Ky. They have one son, Ernie Jr.

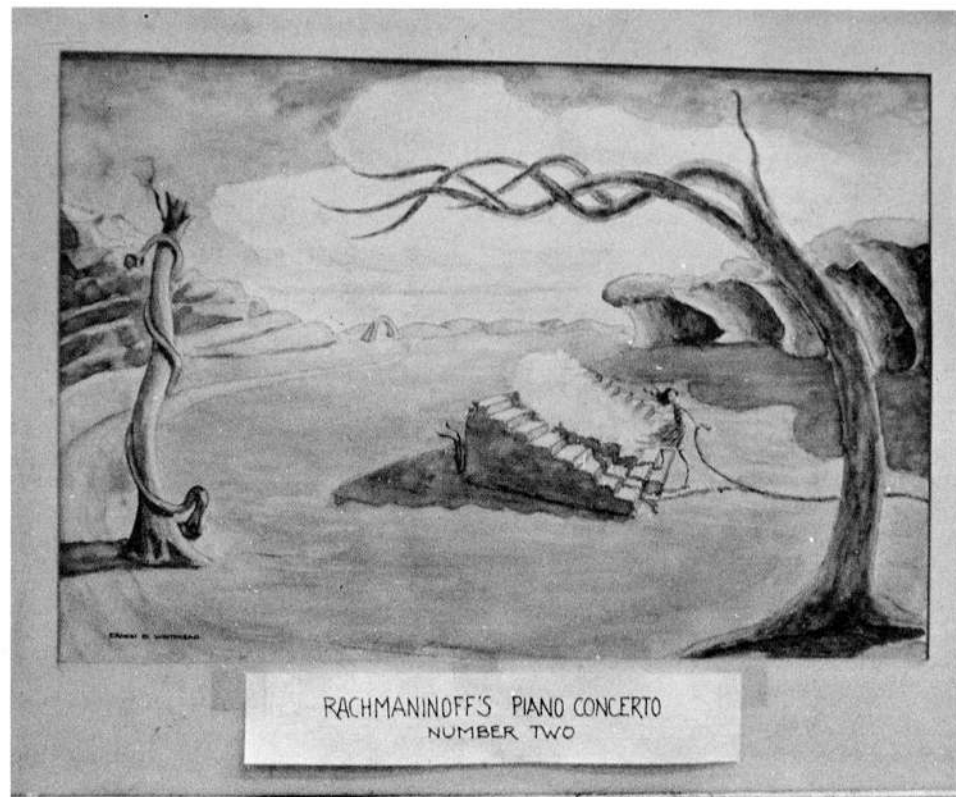
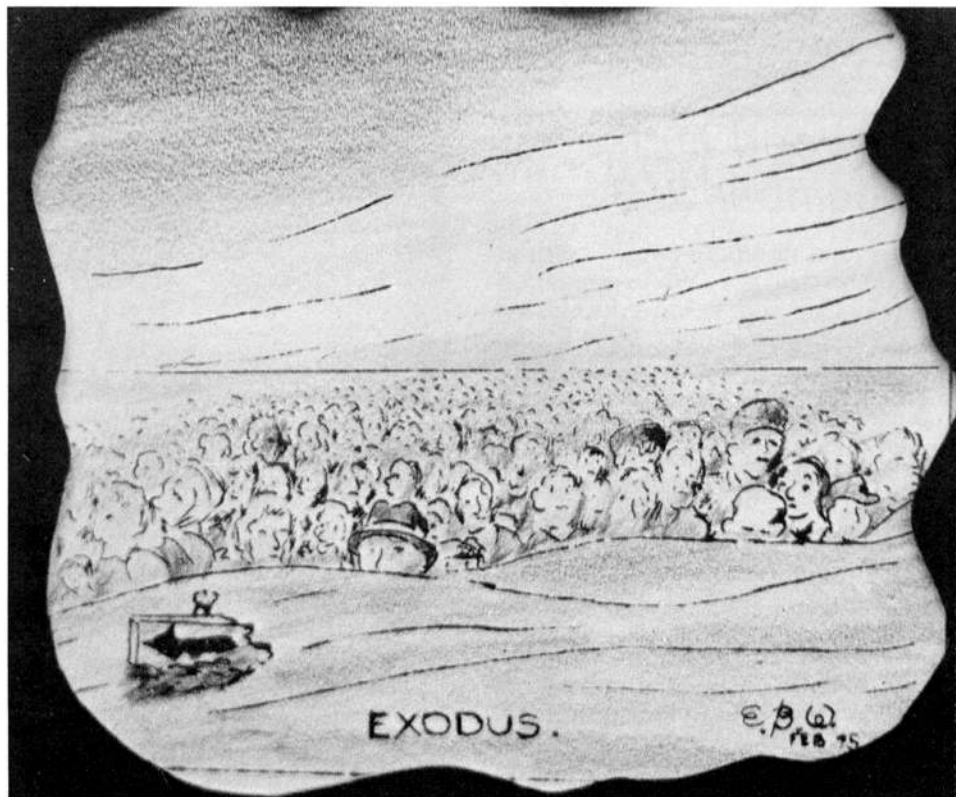


Artist-Engineer Ernie Whitehead



next issue...

The next issue will be dated December 8. The deadline is November 30.

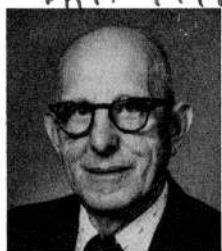


retirements

NOVEMBER-DECEMBER



Alvin K. Bissell
Warehousing, Shipping
Y-12
33 years service



Charles C. Bradley
ORGD Maintenance
32 years service



Fred B. Brasel
ORGD Operations
33 years service



Johnnie W. Burgess
Finance, Materials and
Services, ORGD
32 years service



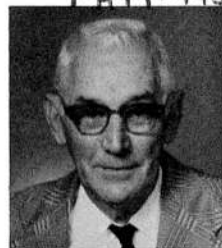
Curtis W. Bush
ORGD Operations
32 years service



Ralph H. Christenberry
Technical Services
ORGD
23 years service



Albert D. Cotton
Y-12 Maintenance
32 years service



George Z. Hickey
ORGD Maintenance
33 years service



Roy H. Jeffers
ORGD Maintenance
31 years service



Burley Jones
ORGD Maintenance
30 years service



Thomas B. Keylon
ORGD Maintenance
31 years service



William A. Ogieglo
ORGD Maintenance
26 years service



Ernest L. Pemberton
General Shops, Y-12
25 years service



Woodrow W. Raper
Y-12 Stores
22 years service



Jerome B. Ruble
Instrumentation and
Controls, ORNL
26 years service



James E. Runkles
ORGD Maintenance
25 years service

McNeese named director of coal technology work



McNeese

The appointment of L. E. "Gene" McNeese as director of the Coal Technology Program at ORNL has been announced by Murray W. Rosenthal, associate director for advanced energy systems.

McNeese succeeds Jere P. Nichols, director of the program since its inception in 1974. Nichols, who accepted the position initially for a limited term, will return to the Chemical Technology Division as manager of engineering analysis.

Coal-related work, with an annual budget of more than \$20 million, now represents approximately 10 percent of ORNL's overall program in energy research and development and supporting physical and life sciences research.

As program director, McNeese will be responsible for managing, coordinating and integrating coal-related activities carried out in 10 ORNL research divisions.

As an associate director of the Chemical Technology Division since 1976, McNeese has been responsible for engineering studies and assessments as part of the Coal Technology Program. He also participated in the assessment and planning activities that led to creation of the program in 1974.

McNeese joined the ORNL staff in 1957 after receiving his bachelor's degree in chemical engineering from Texas Technological College. He later received a master's degree and completed course requirements for his doctorate in chemical engineering at the University of Tennessee. McNeese is a member of the American Society of Mechanical Engineers and served on its Advanced Reactor subcommittee for almost two years. He also is a member of the American Institute of Chemical Engineers, Tau Beta Pi and Sigma Xi.

He and his wife, Gurene, have three children: Sharon, Michael and Gregory. They live at 103 Morgan Road, Oak Ridge.

Winkel assigned added duties in gaseous diffusion efforts

Robert A. Winkel, ORGD Plant Manager, has been given added responsibilities dealing with efforts to maximize the productivity of the gaseous diffusion plants.

Announcement of Winkel's increased responsibilities was made by Charles J. Parks, Vice President-Production for the Nuclear Division.

Commenting on Winkel's responsibilities, Parks said: "While the three-plant gaseous diffusion complex has always been operated to realize a high level of onstream efficiency and separative work output, an even greater emphasis is now being placed on maximizing the productivity of these facilities. This need continues to be brought out as we go through the planning process for the immediate future and long range to the year 2000."

Parks said that to facilitate meeting these requirements, Winkel will specifically concentrate on maintenance procedures and activities. He will be working with the engineering and technical organizations as well as the production groups at all three gaseous diffusion plants.

At the same time, Parks announced the appointment of Kenneth W. Sommerfeld as Deputy Plant Manager to augment the plant manager's office while Winkel handles his additional responsibilities.

Winkel, a native of St. Louis, Mo., has been with Union Carbide since 1944. He worked for several years at ORGD before transferring to PGDP as maintenance division superintendent. In 1957 he was promoted to assistant plant manager with responsibilities for the Plant Engineering Division as well as the maintenance organizations. In 1961 he was appointed Plant Manager at Paducah. He held that position until 1972 when he was named Plant Manager at ORGD.

Sommerfeld, a native of Alpena, Mich., has been with the Nuclear Division since 1958. His first assignments were at the Oak Ridge Y-12 Plant. He transferred to ORGD in 1968 where he became Operations Division superintendent. In 1972 he was named assistant plant manager with the overall responsibility for operations, fabrication and maintenance functions.

Dear deers

Thirty-two deer have been killed by vehicles on roads in the ORNL area from January through October 31, 1977. This 10-month total equals the number killed during calendar 1976.

Twenty-nine of the deer were within a five-mile radius of ORNL

(Please see page 7)

about people . . .



Green



Harms



Henderson

Robert L. Green, central records coordinator in the General Accounting Division, has been named a Certified Records Manager. The first Nuclear Division CRM, Green is also the first in Tennessee to certify by examination. At present there are 250 certified records managers in the world, with only one other in the entire corporation. Green helped organize the East Tennessee Chapter of the Association of Records Managers and Administrators, and served as the chapter's first president. He was named chapter member of the year in 1971-72. Green was awarded his certification at the ARMA convention in Texas last month.

Gray S. Henderson, ORNL Environmental Sciences Division, is one of five researchers selected for presenting outstanding scientific papers during the 1976 meeting of the American Society of Agronomy, Soil Sciences Society of America and Crop Sciences Society of America.

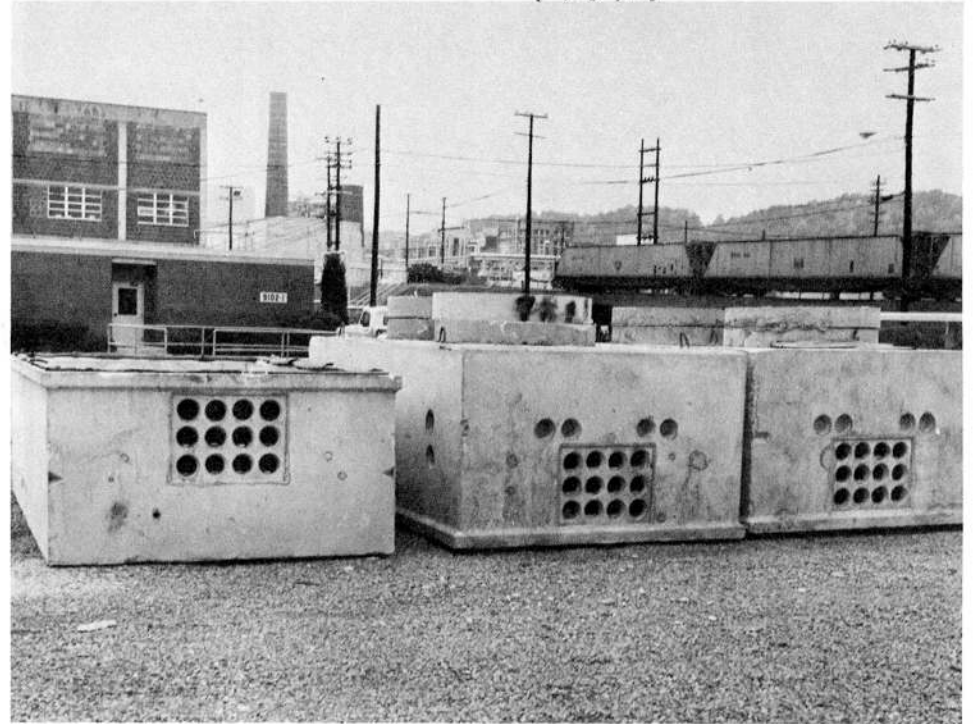
Henderson received his certificate of recognition during the organization's 1977 meeting in Los Angeles recently. The paper he presented, titled "Sulfate Deposition and Movement in a Deciduous Forest Watershed," was coauthored by David S. Shriner, also of the Environmental Sciences Division.

William O. Harms, director of the Breeder Reactor Program, ORNL, has been twice honored by the American Society for Metals (ASM). 1) He was elected a fellow "for contributions and guidance as a teacher in materials engineering and leadership in research and development of materials associated with reactor programs in the U.S. and Germany;" and 2) ASM's Los Angeles chapter has established the ASM-William O. Harms Award as part of the 15th Annual Student Metallographic Contest. This award will "recognize and encourage students to demonstrate skill in producing a photomicrograph of a metal specimen from an energy-related field."

Revision begins on Manhattan Project telephones



Voice of jackhammer



Conduit boxes



A shovelful of earth

All the earth-moving that recently began at Y-12 signals the coming of a new telephone system.

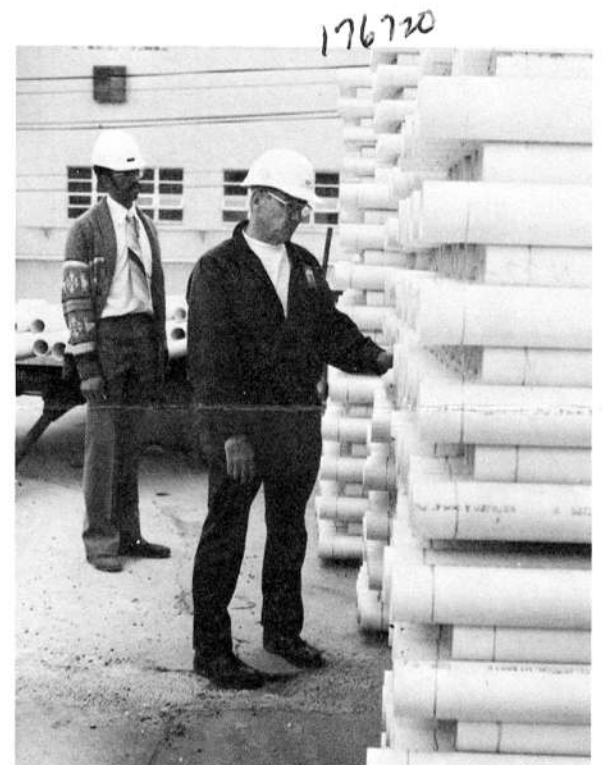
The old lines, built during the Manhattan Project days, have long since outlived their usefulness and progress makes way for new systems to better fill our communications needs.

The giant conduit boxes and most of the lines will be underground. The new systems, to be completed in the spring of 1979, will feature touch-tone dialing and eliminate the overloaded lines that have plagued all the Oak Ridge plants.

The schedule, as it now stands, calls for a revision of ORNL systems after the work at Y-12 is complete; then on to ORGDP.

Southland Construction, who is doing the contractual work for South Central Bell, will be around the plants for some time. Extreme caution is required in the construction areas.

Bell officials state that the main conduits leading from the city have already been laid.



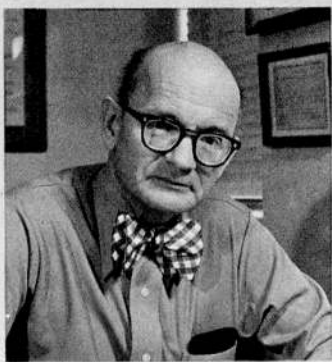
Ricardo Swett, Bill Stanton
Nuclear Division engineers



Traffic impeded



Road blocks



Nicotine: poison paradox

by T. A. Lincoln, M.D.

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 20, Y-12, or call the news editor in your plant, and give him or her your question on the telephone.)

One of this country's most amazing paradoxes is our behavior toward tobacco consumption. We annually consume about 620 billion cigarettes, 8 million cigars and 150 million pounds of tobacco—for chewing, dipping or smoking in pipes—at a cost of close to 20 billion dollars. We pay a heavy subsidy to tobacco farmers. We rail against environmental and occupational pollution because it "damages" our health; yet nicotine, the substance in tobacco which causes such irrational behavior, is one of the most toxic substances known to mankind. For example:

- The vapor arising from a glass rod which has been dipped in nicotine and held close to the beak of a small bird will cause it to drop dead immediately.
- Two drops of nicotine placed on the gums of a dog will kill it almost as fast.
- In most adults, the fatal dose of nicotine when inhaled as smoke is only about 40 to 60 milligrams.
- The nicotine content of one cigar, if injected intravenously, would be sufficient to kill two people.
- Nicotine acts with a rapidity and toxicity comparable cyanide.

The reason why few people die from acute nicotine poisoning is because they develop a

remarkable tolerance. Most cigarettes now widely sold in the USA have from 0.2 to 2.2 milligrams of nicotine per cigarette. The mainstream smoke of the average cigarette contains about 1 milligram of nicotine. The cigarettes smoked a few years ago and some present high nicotine cigarettes contain many times this amount. Ninety percent of the nicotine in the inhaled smoke will be absorbed if drawn deeply into the lungs. If the smoke is held in the mouth, only about 25 to 50 percent is absorbed.

Chronic smokers

Fortunately, the detoxification of nicotine in the liver is fairly rapid. Also, from about 5 to 25 percent of nicotine is excreted unchanged in the urine. Chronic smokers tolerate blood levels of nicotine which would make nonsmokers dangerously ill.

Nicotine is readily absorbed from chewing tobacco. Five milligrams can be absorbed from 10 grams of tobacco during the first hour. Individuals who are habitual chewers could easily absorb 50 milligrams a day.

The cardiovascular effects of nicotine are a major public health concern. When smokers smoke their first cigarette in the morning, they usually get a great increase in their heart rate and some increase in blood pressure. Smokers, in general, have a more rapid heart rate than nonsmokers. One cigarette markedly reduces the microcirculation in the fingers and toes, which can be of critical importance in peripheral vascular diseases. Nicotine is a common cause, or at least an aggravating factor, in cardiac arrhythmias (irregularities in heartbeat). A major reason why smokers more frequently die during their first heart attack is because of an accompanying disastrous rhythm disturbance.

Impairs 'housekeeping'

Nicotine impairs the function of cilia in the bronchi. These cilia normally sweep a blanket of mucus from the depths of the lung up to the throat, where it is swallowed. It is the principal housekeeping or cleansing mechanism of the lung. Because of this impaired housekeeping, carcinogens in tobacco tars have a longer residence time in the lung. Small airway disease can also frequently be detected in chronic smokers, indicating an impairment in ventilation of the lung.

Nicotine is a central nervous stimulant, even though most smokers believe they derive primarily a relaxing effect. It is the effect on the central nervous system which addicts the user to tobacco. There appears to be a satisfying stimulation-relaxation syndrome, which is especially

appealing after meals, while drinking alcoholic beverages and during periods of tension.

Smokers seek a level of nicotine which gives them the desired "relaxation." If low nicotine cigarettes are smoked, the smoker frequently will smoke faster, inhale more deeply and smoke more cigarettes to achieve the desired level. Such an effect has been cleverly used by manufacturers to increase the consumption of "low tar" cigarettes; while, in fact, smokers are exposed to increased total amounts of carcinogenic tars.

Croppers' disease

Although primarily a personal "voluntary" hazard, nicotine is also the cause of an unusual occupational disease. During July and August tobacco pickers, known as "croppers," walk between rows of plants, pulling off ripening leaves. When this work begins early in the morning, the cropper gets soaked with dew that has gathered on the leaves overnight. If the cropper is a nonsmoker, he may experience headache and dizziness—which may progress to nausea, vomiting and prostration. The illness usually only lasts 12 to 24 hours, but recurs repeatedly. The cause is the nicotine content of the dew which has resided on the tobacco plants and is absorbed through the skin. The disease occurs primarily in nonsmokers because smokers have developed tolerance.

Forty years ago nicotine was used as a common pesticide. Now it would never be approved without elaborate training courses or the use of respiratory protective equipment.

In spite of the hazards, about 40-50 percent of working adults still snuggle up to their "friendly" poison 20 to 40 times a day, often while complaining about the chemical hazards of their city or work environment.

Y-12 names new lieutenants in Fire and Guard

The Fire and Guard Department in Y-12 has named four new lieutenants, Larry E. Brown, Larry S. Key, James E. Roop and James M. Wampler.

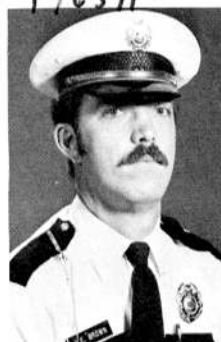
Brown, a native of Maryville, attended Hiwassee College and holds B.A. and M.A. degrees from Maryville College and the University of Tennessee. He was with the Oak Ridge Police Department four years before joining Union Carbide in 1976.

Mrs. Brown is the former Carol Ann Hudson, and the couple lives at Route 7, Cox Drive, Harriman. They have a son, Justin.

Key is a native of Knoxville and joined Union Carbide recently after serving with the Knoxville Police Department. He attended the Department of Transportation Safety Institute and Walters State Community College.

He and his wife, the former Martha Dempster, live at 4428 Felty Drive, Knoxville. They have a son, Scott.

Roop, a native of Knoxville, is attending Roane State Community College. He worked for the Knoxville



Brown



Key



Roop



Wampler

Fire Department before joining Union Carbide early this year.

Mrs. Roop is the former Janice L. Koontz and they live at 4606 Barbara Drive, Knoxville. They have two children, Whitney and James E. II.

Wampler was an investigator with the Loudon County sheriff's department before joining Union Carbide this year. He is a native of Loudon County.

Mrs. Wampler is the former Margaret Duff. The Wampers live at Route 2, Lenoir City, with their son, Greg.

division death

Raymond L. Ragsdale, a guard at ORGDP, died from injuries received in a motorcycle accident November 2.

A native of Oliver Springs, Mr. Ragsdale lived at Eaton's Crossroads, Lenoir City, and joined Union Carbide in 1954.

Survivors include his mother, Hilda, brothers, Michael, Douglas and Edward; sisters, Dixie Hicks, Jean McMillan, Ann and Margaret Ragsdale, and Ramona Williams.

Funeral services were held at St. Mary's Catholic Church, with burial in Oak Ridge Memorial Park.



wanted...

Y-12 Plant

JOIN CAR POOL from Karns area to East, North or Biology Portals, 8-4:30. Charlie Watson, plant extension 3-7744, or home phone 690-2727.

ORNL

FIFTH CAR POOL MEMBER from vicinity of Middlebrook Pike, Country Club Apartments, Cedar Bluff Road, and Landmark and Gulf Park Subdivisions, Knoxville, to East Portal, 8:15-4:45. J. W. Sims, plant phone 3-1486, home phone 693-8829.

patents granted...

To Billy E. Foster, ORNL, for "Method of Simulating Spherical Voids for Use as a Radiographic Standard."

To Raymond J. Brown, Y-12 Plant, for "Tool Setting Device."

recreationotes

Oak Ridge volleyball. . .

Three Volleyball Leagues got under way early in November, with 43 teams involved.
Standings follow:

ATOMIC LEAGUE			NUCLEAR LEAGUE		
TEAM	WON	LOST	TEAM	WON	LOST
Taxi Squad	11	1	Rad-Fizz	6	3
Diggers 4	11	1	Over-The-Hill-Gang	6	0
Diggers 3	8	4	Ball Busters	5	1
Quarks	6	6	Orange Team	5	1
Head Hunters	0	12	Artie's Army	5	4
Old Men	0	12	Bio Bumpers	5	4
CARBON LEAGUE			Bawlers	4	2
TEAM	WON	LOST	Pogos	3	0
D-Shift	7	2	Skinks	3	0
Spiders	6	3	Maxwell Demons	3	6
Volettes	6	3	The Electric Bananas	2	1
Players	6	3	Sewer Trout	2	4
Net Profits	5	1	Abends	2	7
The Set Ups	4	2	No-Names	2	7
The Group	3	3	Net Pickers	1	2
Fesnakes	3	0	Sloths	0	3
The Flockers	2	1	Fed's	0	3
Odds & Ends	2	1	Gauss House Gang	0	6
The High-Timers	2	1			
Jedi Knights	2	4			
Gag-Genes	2	7			
Tom's Turkeys	2	7			
Mixed Nuts	1	2			
Streakers	1	5			
Dread Red Devils	0	3			
Wall Bangers	0	3			
The Bombers	0	3			

Paducah volleyball. . .

Plans are now being made for a volleyball league at the Paducah Plant. Interested players may contact Richard Cartwright, PAX 501.

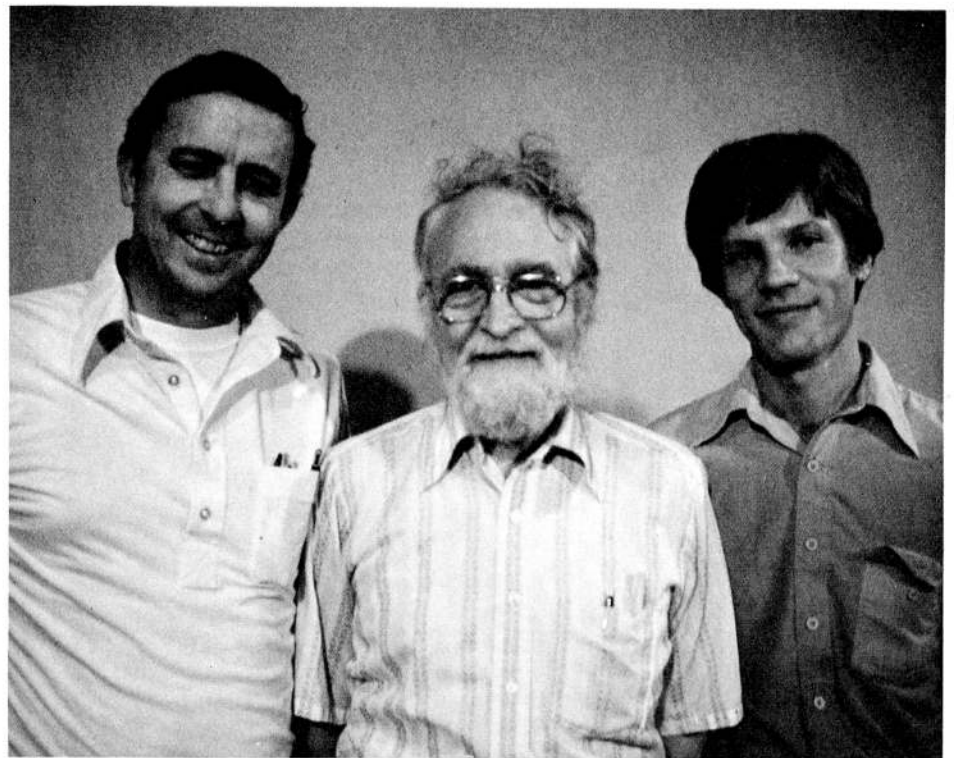
safety scoreboard

Time worked without a lost-time accident through November 17:

Paducah.....	118 Days	1,536,700 Man-Hours
ORGDP	2 Days	92,000 Man-Hours
Y-12 Plant	275 Days	8,444,000 Man-Hours
ORNL	205 Days	4,493,322 Man-Hours



WINTER WARRIORS—The number one team at Paducah's most recent golf scramble consists of, from left, C. W. Cope, Ed Bazzell, Norma Smith and Jake Piercy, captain. The scramble was held at the Boots Randolph Golf Course on Lake Barclay. The annual nine-hole "Snowbird" scramble is set for December 2 at Paxton Park. Entry deadline is noon, November 30.



PLAYHOUSE PARTICIPANTS—Jim Williams, Ed Bettis and Chuck Kemper are all part of the Oak Ridge Playhouse's production of "The Oldest Living Graduate." The bitter-sweet comedy will be held December 2, 3, 9, 10, 16 and 17 at the Jackson Square Playhouse.

Carbide bowling

Y-12 C League. . .

The Mini-Strikes still hold the lead in the Y-12 "C" League. John Johnson rolled a 696 series to take over first place from George Cantrell for the series season high.

Y-12 Classic. . .

The Eightballs continue to hold their one point lead over the Splinters in the Classic League. The Ridgers still hold a season high with 3125 handicap series.

UCC Mixed. . .

The Y-12 Mixed League continues to have a one-half point difference between the Bits & Pieces and the Friskies. Last week, Martha Britt rolled a 191-222-156/569 scratch series. Patrice Hayes rolled a 220/533 scratch series this week.

K-25 Tuesday. . .

The City Slickers have run away with the K-25 Tuesday Night League. R. V. Rinehart rolled the week high with a 230/255 handicap game. V. T. Murphy had a 243/266 handicap game during the week of November 1.

K-25 Wednesday. . .

The Planners have taken over the lead in the K-25 Wednesday Night League by 1-1/2 points. D. G. Nelson of the Protectors rolled a 245 for the weekly high. Chuck McCluskey had a 655 series for Sues Sooners.

ORNL C. . .

The Damagers dropped 3-1/2 points behind the Alley Rads last week. Bacarella had the high series handicap for the Engineers - 663.

ORGDP Women's. . .

The Uptowners continue to retain their first place position over Out-of-Towners. Ruby O'Kain helped keep the Uptowners in their lead with a 195-172-225=592 scratch series.

ORNL A. . .

The Zots still hold the lead in the ORNL "A" League. The Limits got pushed down to fourth by the Dynamics and Ten Pins. Hodge for the Dynamics rolled a 647 for weekly high series which helped give the Dynamics a 3010 team series.

ORNL Ladies. . .

The Mousechasers continue to hold a four point lead over the Bowling Aces and Avengers, who are tied for second and third. The Avengers moved the Coolettes out of season high series team with a 2296.

Family Mixed. . .

The lead is held by the Oops this week in the Carbide Family League. Double Trouble is close behind by only one point. Claude Jones' 524 and Lois Stallions' 550 were high scratch series for the men and women.

Monday Mixed. . .

The Roadrunners are trying to catch the Four Eagles in the Monday Mixed League at Western Plaza. Sandy Collins beat her previous high game of 219 with a 223 to increase her hold on high scratch game for women.

Carbide skeet. . .

The Skeet Club had a winner from each plant during the month of September. R. A. Alstun of Y-12 shot 48.516 to score first. John Basler of ORNL and Bill Davy Sr. of K-25 placed second and third, respectively.

Paducah basketball. . .

Basketball is revving up for the 1977-78 season at the Paducah Plant. Interested employees should contact Mike Flood, David Martin or Jim Robertson.

Application for Tickets



To

Christmas Parties



FOR CHILDREN OF OAK RIDGE UNION CARBIDE EMPLOYEES
(AGES 2-10 ONLY)

THURSDAY, DECEMBER 22

Plant
Employee's Name
Home Address
Plant Address
Number of Tickets (Children)
Number of Tickets (Adults)

—CHECK TIME PREFERRED—

Thursday, December 22 11 A.M. 1 P.M.
Only 3 P.M. 5 P.M.

Please check first and second choice (write in space "1" or "2") as only a limited number of tickets will be issued for each party. Preference will be given early applicants and if tickets for first choice are exhausted, tickets for second choice will be issued.

Return this form, properly and completely filled in, to the Carbide Recreation Office, Building 9711-5, Stop 1, Y-12 Plant. Please apply for tickets before December 16. The required number of tickets will then be mailed to parents at their home or plant addresses.

APPLICATION FOR TICKETS PADUCAH

CARBIDE CHILDREN'S CHRISTMAS PARTY
(For Children Ages 2-10)

SATURDAY, DECEMBER 10, 9 A.M.

(Doors will open at 8:30 a.m.)

ARCADE THEATRE, PADUCAH, KY.

Employee's Name Badge No.

Home Address

(Please Print Street Address or RFD, City and Zip Code)

Number of your children who will attend the party (please list):

Name (BOYS) Age Name (GIRLS) Age

Name Age Name Age

Name Age Name Age

NOTE: Fill out form completely and return immediately to the Recreation Office, Union Carbide Corporation, P.O. Box 1410, Paducah, Ky. 42001. Tickets will be mailed to home address.



PARTY ACT—Erik Adams and his acrobatic dogs will be one of the featured acts at the Oak Ridge Carbide children's party December 22. Parties will be held at 11 a.m., 1, 3 and 5 p.m. on the Thursday before Christmas. Larry Bohanan's puppet show will also be one of the show's highlights. A coupon for tickets appears below.

Christmas parties set for Oak Ridge, Paducah children

Carbide children in the Oak Ridge area are set for a big Christmas party, Thursday, December 22. There will be parties at 11 a.m., 1, 3 and 5 p.m. at the Oak Ridge High School Auditorium.

Highlighting the show will be Eric Adam and his chimp and dog acts. Larry Bohanan will have his famous puppets on hand, a popular repeat from last year that will also delight the children.

Paducah children will celebrate a little earlier, with a party Saturday, December 10, at the Arcade Theatre.

Both parties will feature visits from the "jolly old elf" with special gifts for every child.

Both locales require tickets and applications appear below.

Time preference should be shown, both first and second choices, on the Oak Ridge applications. Time allotments will go on a "first-come first-served basis."

Make application early, and make sure your application is made at the proper location. Both are clearly marked.

ORGDP dance tickets

If you haven't purchased tickets for the December 3 dance, you'd better move. At last reports, tickets were fast approaching depletion (a limit of 600 is being sold). It will be held at the Oak Ridge Civic Center, and tickets are \$6.50 each.

Deer/car accidents

(Continued from page 3)

proper. Ten kills occurred on Bethel Valley Road between White Wing intersection and approximately one mile east of the entrance to the 7600 area.

Drivers are urged to proceed with caution and drive at speeds that will allow for complete vehicle control. A head-on vehicle collision is recognized as one of the worst types of driving accidents. Do not let the sudden appearance of a deer along the roadway cause a reaction that would result in an accident.

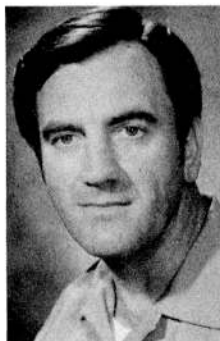


SAFETY CONTRIBUTIONS—The Finance, Materials and Services Division at ORGDP was recognized recently for contributions to the overall safe working record at the plant. Representatives from the division include, from left, seated, Claude Bridges, Gary Hilton, Helen Trotman, Bobbie Duncan, Barbara Boatman, Betty Kesterson and Mike Raines. Standing are Mason Oakes, A. A. Toney, Robert A. Winkel, plant manager; Jim Woodward, Joe Sherrod, Frank Jamison, division superintendent; and Ridley Ray, Safety Department.

Two promoted at Paducah



Cannon



Elkins

Two promotions were announced at the Paducah Plant, as Claude T. Cannon was named supervisor trainee in the Instrument Maintenance Department, and Samuel L. Elkins was made a lieutenant in the Plant Protection Department.

Cannon joined Union Carbide in 1975 and has recently served as an administrative supply technician for the Kentucky National Guard. He

received an A.B.S. from Paducah Community College and a B.S. degree from Mississippi State University. He has also done graduate work at Murray State University.

He and his wife, Bonnie, reside on Wellington Circle in Paducah. They have a son, Gregory.

Elkins has an associate degree in police administration from the Oakdale Community College. He also continued these studies at Wayne State University, and is now attending Murray State University.

A native of Dearborn, Mich., he has served as chief of police in Northville, Mich., and as a detective lieutenant for the city of Inkster. Before joining Union Carbide earlier this year, he was chief of security at Fisher-Price Toys, Murray, Ky.

Elkins and his wife, Mildred, have four children, Don, Sheryl, John and Lori. They live at Route 1, Puryear, Tenn.

Cunningham, Allred promoted in P&E



Allred



Cunningham

C. E. "Mickey" Allred and W. E. Cunningham, both of the Plant and Equipment Division at ORNL, have been promoted to planner-estimators within the division.

Allred joined the Nuclear Division in 1969, first working in the ORNL Cafeteria, then as a reactor operator,

and most recently as a carpenter in P&E. From 1968 to 1969, he was on active duty with the Army Reserve.

Allred and his wife, Diane, have three children: Jennifer, Carla and Amy. They live at Route 2, Andersonville.

Cunningham has been with the Nuclear Division since 1953. He worked as a pipefitter at the Y-12 Plant before transferring to ORNL in 1964. From 1973 to 1977, he worked as a senior engineering technician, Plant and Equipment Division. He also was employed two years by the Tennessee Valley Authority.

A native of Athens, Ala., Cunningham and his wife, Mena, live at 308 Snowbird Drive, Concord. They have two children, Horace and Betty Ann.

anniversaries

ORGDP

25 YEARS

John D. Nicol, Robert T. Payne, Henry L. McWane, Alex P. Marshall Jr. and Mary B. Hall.

PADUCAH

25 YEARS

Harry A. Johnson Jr., Clifford E. Seaton, Clarence H. Yates and Howard J. Rendleman.

ORNL

30 YEARS

Lee E. Tucker, Environmental Sciences; Zell Combs, Information; Arnold J. Wallace, Finance and Materials; Clarence R. Wright, Finance and Materials; Elbert F. Marguerat, Engineering; and William C. Fox, Plant and Equipment.

25 YEARS

Harriett A. Steinke, Hobart D. Curtis, Anderson B. Galyon and John M. Canupp.

20 YEARS

Warner H. Christie and Richard A. Robinson.

Y-12 PLANT

30 YEARS

George B. Berry, Engineering Division.

25 YEARS

Edwin E. Nichols, Thomas D. Pressly, Henry T. Green Jr. and David G. Porter.

20 YEARS

Barbara W. Williams and Anna R. Shipley.

wanted...

ORNL

JOIN CAR POOL from West Haven and Bearden areas, Knoxville, to West or North portal or 6000 area, 8-4:30. Don Williamson, plant phone 3-1152, home phone 525-1827.

JOIN CAR POOL from Broadacres, Berkshire Boulevard area, Powell, to Building 1000 area, 8-4:30. Zee Trotter, plant phone 3-6434, home phone 947-6706.

RIDE ONLY from Jackson Square area, Oak Ridge, to any portal, straight days. A. M. Haggag, plant extension 3-6468.

ORGDP

VAN POOL RIDERS from Karns to ORGDP, any portal 7:45-4:15 shift. Tom Lemons, plant phone 3-3556, home phone Knoxville 947-8959.

Savings Plan-Personal Investment Account

	Fixed Income Fund	UCC Stock	Equity Investment Fund
December 75	11.9880	58.7886	7.8231
December 76	13.9554	59.2723	8.8167
August 77	13.8178	46.5880	8.0671
September 77	13.9146	44.7254	8.0530
October 77	14.0104	42.5434	7.7151

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 8.70% for 1977. Union Carbide stock values are the average cost of stock purchases during the month plus brokerage charges. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. The price of each unit is determined by dividing the total value of the securities by the number of units in the Fund.



SPEAKING OF INFLATION—The recent study of how Nuclear Division employees are combating inflation might well have included this photo. A six-man carpool at ORGDP, representing 140 years of company service, has saved more than a quarter of a million dollars by riding together! They are, from left, Tom Bomar, Howard Crane, Ernie Boyd, Dave Cardwell, Charley Hammett and Arthur Jones.

\$260,000 savings computed by ORGDP sextet in carpool

How would you like to get \$40,000 for Christmas?

Members of a six-man carpool at ORGDP have saved that much during 15 years of car pooling. Collectively the savings total \$260,000.

"That's enough to buy us all a custom-made Pierce-Arrow," one pooler stated.

The carpool consists of Arthur Jones, Charley Hammett, Dave Cardwell, Ernie Boyd, Howard Crane and Tom Bomar.

Commuting from northwest Knoxville, four of the carpools

embark at Portal 4; the other two at Portal 2 at ORGDP.

The economy-minded sextet started pooling about 15 years ago, and just very well may be the oldest carpool around. "It's fun to ride together," one said, "and you only have to drive your own car every sixth week. I only have one car, and that leaves it at home for the family most of the time."

The mathematical experts have computed the savings on today's dollars, and warn that it is actually not as lucrative a savings as it seems. Nevertheless, on today's dollar or yesterday's, it's a heap of scratch.



UNION CARBIDE CORPORATION

NUCLEAR DIVISION

P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

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